



# SHELL CALLINA™ FLUID 3100

## Soak cleaner

### Product Description

**Shell Callina Fluid 3100** is a liquid alkaline compound developed for immersion cleaning operations. **Shell Callina Fluid 3100** is very effective in removing and emulsifying heavy lubricants on ferrous and non-ferrous substrates. **Shell Callina Fluid 3100** should not be used in spray washers.

**Shell Callina Fluid 3100** should be used at a concentration of 1-5% by volume at a temperature of 160° - 200°F. The temperature and contact time with the metal should be determined based on the degree of cleaning necessary. To use, heat the water in the bath to 150° - 160°F. Add the required amount of **Shell Callina Fluid 3100** with agitation. Heat the bath to the operation temperature and start processing the work.

To determine the concentration of **Shell Callina Fluid 3100**, place a 25 ml sample of the solution in a 250 ml flask. Add 3 - 5 drops of Phenolphthalein Indicator. Titrate with 0.1 Normal Sulfuric Acid to the endpoint (red to colorless). Each ml of 0.1 Normal Sulfuric Acid used is equal to 0.33%, by volume, of **Shell Callina Fluid 3100**.

### Applications

- immersion cleaning operations on a wide variety of metals

### Features and Benefits

- safe on majority of metals helping to reduce inventory of cleaners required in shop
- removes heavy lubricants helping to reduce rework and maximize shop efficiency

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### Typical Properties of Shell Callina Fluid 3100

	Test Method	
Product Code (drums)		5064249
Appearance	Visual	Dark Amber, Clear Liquid
pH of Concentrate		12.5
pH of working bath		11.0-12.0
Foaming Tendency		Heavy

## **Handling & Safety Information**

This product is an alkaline detergent compound. It will cause severe eye irritation. It may cause skin irritation. Do not get this product on the skin, in the eyes, or on clothing. When handling this material, wear goggles or face shield, rubber gloves, and breathing protection. Keep clothing clean. Avoid inhalation and ingestion. Use with adequate and proper ventilation.

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet <http://www.equivashellmsds.com>. If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please call **1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.

NOTE: *"Read and understand all precautions on container labels before using this product."*

## **First Aid**

In case of contact with the skin, immediately flush the skin with plenty of water. In case of contact with the eyes, flush the eyes with plenty of water for 15 minutes and get medical attention.